Date of Report: 12/29/09
Date Received: 12/15/09
Project: 1198001.010.011, F&BI 912133
Date Extracted: NA
Date Analyzed: 12/16/09

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR pH USING EPA METHOD 9040C

Sample ID Laboratory ID	pH
CB331707 912133-01	6.97
CB330001 912133-02	6.89

Date of Report: 12/29/09
Date Received: 12/15/09
Project: 1198001.010.011, F&BI 912133
Date Extracted: NA
Date Analyzed: 12/16/09

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TURBIDITY USING METHOD SM2130B

Results Reported as NTU

Sample ID Laboratory ID	Date Sampled	Time Sampled	Turbidity
CB331707 912133-01	12/15/09	15:10	39.3
CB330001 912133-02	12/15/09	14:58	26.0
Method Blank			<0.5

Analysis For Total Metals By EPA Method 200.8

Client ID:	CB331707	Client:	Landau Associates
Date Received:	12/15/09	Project:	1198001.010.011, F&BI 912133
Date Extracted:	12/16/09	Lab ID:	912133-01
Date Analyzed:	12/17/09	Data File:	912133-01.053
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Copper	414
Zinc	1,120
Lead	27.8

Analysis For Total Metals By EPA Method 200.8

Client ID:	CB330001	Client:	Landau Associates
Date Received:	12/15/09	Project:	1198001.010.011, F&BI 912133
Date Extracted:	12/16/09	Lab ID:	912133-02
Date Analyzed:	12/17/09	Data File:	912133-02.054
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Copper	146
Zinc	143
Lead	25.3

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Landau Associates
Date Received:	NA	Project:	1198001.010.011, F&BI 912133
Date Extracted:	12/16/09	Lab ID:	I9-549 mb
Date Analyzed:	12/17/09	Data File:	I9-549 mb.041
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Copper	<1
Zinc	<1
Lead	<1

Date of Report: 12/29/09
Date Received: 12/15/09
Project: 1198001.010.011, F&BI 912133
Date Extracted: NA
Date Analyzed: 12/18/09

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
CB331707 912133-01	87
CB330001 912133-02	60
Method Blank	<10

Date of Report: 12/29/09
Date Received: 12/15/09
Project: 1198001.010.011, F&BI 912133

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR pH BY METHOD 9040C

Laboratory Code: 912120-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	8.27	8.34	1	0-20

Date of Report: 12/29/09
Date Received: 12/15/09
Project: 1198001.010.011, F&BI 912133

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TURBIDITY USING METHOD SM2130B

Laboratory Code: 912120-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Turbidity	NTU	0.6	0.6	0	0-20

Date of Report: 12/29/09
Date Received: 12/15/09
Project: 1198001.010.011, F&BI 912133

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 912135-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Copper	ug/L (ppb)	<1	<1	nm	0-20
Zinc	ug/L (ppb)	108	106	2	0-20
Lead	ug/L (ppb)	<1	<1	nm	0-20

Laboratory Code: 912135-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Copper	ug/L (ppb)	20	<1	108	50-150
Zinc	ug/L (ppb)	50	108	108 b	50-150
Lead	ug/L (ppb)	10	<1	101	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Copper	ug/L (ppb)	20	106	70-130
Zinc	ug/L (ppb)	50	105	70-130
Lead	ug/L (ppb)	10	102	70-130

Date of Report: 12/29/09
Date Received: 12/15/09
Project: 1198001.010.011, F&BI 912133

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L	50	91	98	67-128	7

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Charlene Morrow, M.S.
Yelena Aravkina, M.S.
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December 23, 2009

Joe Kalmar, Project Manager
Landau Associates
130 2nd Ave. S.
Edmonds, WA 98020

Dear Mr. Kalmer:

Included are the results from the testing of material submitted on December 15, 2009 from the 0273015-010-011, F&BI 912134 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Gerry Thompson
NAA1223R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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e-mail: fbi@isomedia.com

December 29, 2009

Joe Kalmer, Project Manager
Landau Associates
130 2nd Ave. S.
Edmonds, WA 98020

Dear Mr. Kalmer:

Included are the results from the testing of material submitted on December 15, 2009 from the 1198001.010.011, F&BI 912133 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Gerry Thompson
NAA1229R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 15, 2009 by Friedman & Bruya, Inc. from the Landau Associates 1198001.010.011, F&BI 912133 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Landau Associates
912133-01	CB331707
912133-02	CB330001

The samples were sent to Aquatic Research for oil and grease and hardness analyses. Review of the enclosed report indicates that all quality assurance was acceptable.

All quality control requirements were acceptable.